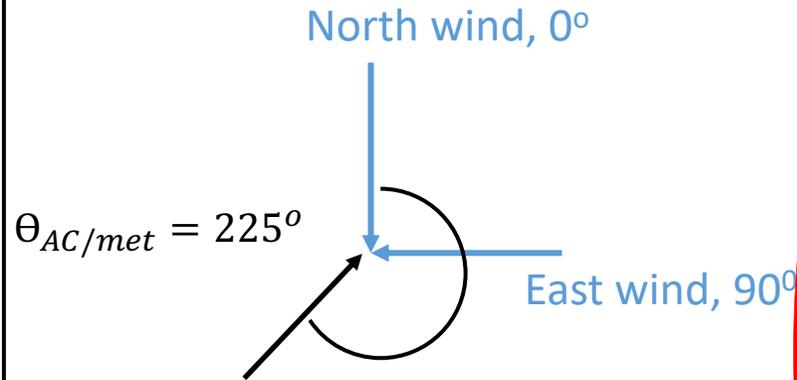


# Wind Angle Convention for SBPW3

- In the workshop atmospheric profiles, X-WIND corresponds to u-wind and Y-WIND corresponds to v-wind
- We following the convention of **Meteorological Vector Winds**

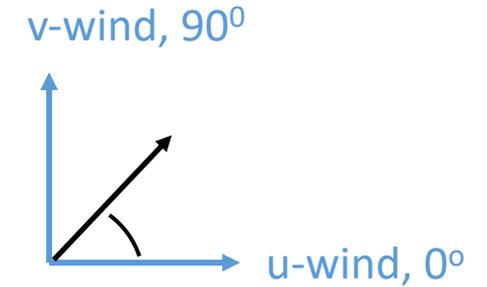
Example: Consider air particles moving from the south west to the north east represented by the black arrow ↗

## Traditional Meteorological and aircraft winds



- 0° North wind: air particles moving from north to south
- 90° East wind: air particles moving from east to west

## Meteorological Vector Winds



$$\theta_{met\ vect} = 45^\circ$$

- 0° Positive u-wind: air particles moving from west to east
- 90° Positive v-wind: air particles moving from south to north

# Azimuthal Angle Convention for SBPW3

Assume aircraft is flying into the plane of the paper

